QUINAZOLINE-BASED COMPOUND

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Abstract

PURPOSE:To obtain the new compound, composed of a quinazoline-based compound having amino group at the 4-position, having selective inhibiting actions on calmodulin-dependent cyclic guanosine 5'-monophosphate (cGMP) phosphodiesterases and useful for treating and preventing, etc., ischemic cardiopathy.
CONSTITUTION:This new quinazoline-based compound is expressed by formula I [R<1> to R<5> are each H, a halogen, a lower alkyl or a lower alkoxy; R<6> and R<7> are each H, a lower alkyl, a hydroxyalkyl, a lower alkoxyalkyl, a cyanoalkyl, a heteroarylalkyl, a cycloalkyl, a cycloalkylalkyl or a (protected) carboxyalkyl; R<6> and R<7>, together with N to which they are bound, may form a (substituted) heterocyclic ring and has selective inhibiting actions on calmodulin- dependent cGMP phosphodiesterases [e.g. 4-(3-carboxypropyl)amino-6,7,8- trimethoxyquinazoline]. The compound is obtained by reacting a compound expressed by formula II (X and X' are each a halogen) with compounds expressed by the forrrtulas HNR<6>R<7> and R<5>H.